



KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054. Tel.: 23378383, 23375326,
E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com



NABL Accredited Laboratory ISO/IEC 17025

Report No. : KTH/C.AGG/1119-1720/2014-2015

Date: 22.08.2014

TEST REPORT ON AGGREGATE (Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements to roads & drains in 6th & 7th cross road at 3rd main road at
Ravindranagara in ward No.13.

Name of Contractor* : Mr. Srinivas V, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 19.08.2014.

Technical Reference : IS : 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample confirms to Single size of IS: Stipulation of 40mm size Aggregate.
2	20	89.44	85 to 100	95 to 100	
3	16	0.91	-	-	
4	10	-	0 to 20	25 to 55	
5	4.75	-	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	15.21	Not specified
2	Elongation Index (%)	40	10.57	Not specified
3	Impact Value (%)	40	24.50	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ನಗರ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮುನ್ಸಿಪಲ್ ಕಾರ್ಪೊರೇಷನ್
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು



(Sreenivasa C)
TECHNICAL MANAGER

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Report No. : KTH/C.AGG/1119-1720a/2014-2015

Date: 22.08.2014

TEST REPORT ON AGGREGATE (Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements to roads & drains in 6th & 7th cross road at 3rd main road at
Ravindranagara in ward No.13.

Name of Contractor* : Mr. Srinivas V, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 19.08.2014.

Technical Reference : IS: 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

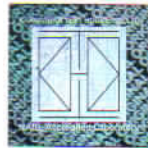
Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample confirms to Single size of IS: Stipulation of 20mm size Aggregate
2	20	91.62	85 to 100	95 to 100	
3	16	60.52	-	-	
4	10	3.78	0 to 20	25 to 55	
5	4.75	0.68	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	9.50	Not specified
2	Elongation Index (%)	20	12.20	Not specified
3	Crushing Value (%)	20	13.18	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.

AE13
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ.ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು



Sreenivasa C
(SREENIVASA C)
TECHNICAL MANAGER

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Report No. : KTH/C.AGG/1119-1721/2014-2015

Date: 22.08.2014

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements to roads & drains in 6th & 7th cross road at 3rd main road at
Ravindranagara in ward No.13.

Name of Contractor* : Mr. Srinivas V, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 19.08.2014.

Technical Reference : IS : 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 - 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 - 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100.0	100	100	100	100	Falls in Zone -II as per table 4 of IS-383 - 1970.
2	4.75	96.9	90 - 100	90 - 100	90 - 100	95 - 100	
3	2.36	89.6	60 - 95	75 - 100	85 - 100	95 - 100	
4	1.18	67.9	30 - 70	55 - 90	75 - 100	90 - 100	
5	0.600	51.5	15 - 34	35 - 59	60 - 79	80 - 100	
6	0.300	13.4	5 - 20	8 - 30	12 - 40	15 to 50	
7	0.150	4.8	0 - 10	0 - 10	0 - 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 - 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	2.8	Shall not be more than 3.0 %.
2.	Fineness Modulus	2.65	Min - 2.0 Max - 3.5

* As furnished by the Customer

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು



Sreenivasa C.
(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/CEMENT/1119-1722/2014-2015

Date: 27.08.2014

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements to roads & drains in 6th & 7th cross road at 3rd main road at
Ravindranagara in ward No.13.

Name of Contractor* : Mr. Srinivas V, Bangalore.

Source of Sample : Supplied by the Customer.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Priya Gold 53 Grade.

Sample Received on : 19.08.2014.

Period of Test : 19.08.2014 to 26.08.2014.

Technical Reference : IS: 4031(Part I-VI) 1988 (Reaffirmed-2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	27.5 %	Not specified	-
2	Initial setting time	186 minutes	Shall not be less than 30 minutes	P ✓
3	Final setting time	277 minutes	Shall not be more than 600 minutes	P ✓
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b. 168 ± 2h (7 days) c. 672 ± 4h (28 days)	28.50 MPa 38.35 MPa T.T.C	Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	P ✓ P ✓ -
5	Fineness (By Blaine's air permeability method)	291.1 m ² /kg	Shall not be less than 225 m ² /kg	P ✓
6	Soundness (Le-chatlier's method)	1.01 mm	Shall not be more than 10 mm	P ✓

P: Passes IS requirement

F: Fails IS requirement

T.T.C: Test To be Conducted.

*As furnished by the Customer

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Report No. : KTH/SB/1119-1723/2014-2015

Date: 22.08.2014

TEST REPORT ON SOLID CONCRETE BLOCKS

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements to roads & drains in 6th & 7th cross road at 3rd main road at
Ravindranagara in ward No.13.

Name of Contractor* : Mr. Srinivas V, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 19.08.2014.

Technical Reference : IS: 2185 (Part I) - 2005

COMPRESSIVE STRENGTH

Sl. No.	Dimension Measured (mm) L x B x D	Loaded area (Gross area) L x B mm ²	Load kN	Compressive Strength N/mm ²	Requirements as per IS: 2185-2005.	
					Individual	Avg. of 8 samples
1.	405x200x100	81000	270	3.33	For Grade D(5.0) - 4.0 N/mm ²	For Grade D(5.0)- 5.0 N/mm ²
2.	402x200x151	80400	510	6.34	For Grade D(4.0)- 3.2 N/mm ²	For Grade D(4.0)- 4.0 N/mm ²
3.	400x198x150	79200	510	6.43		

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Phone : 23378383, 23375326 ; Fax : 91-80-23375326

TEST ORDER FORM

Test Order No: KTH/TO/1119/14-15

Date : 19-Aug-2014

Customer Name : Srinivas V
Customer Address : Flat No.301, Sri Vasishta Apt, 5 Th Temple Rd, B/w 15th & 16 Crs, Maleswaram, Bng
Contact Person :
Contact Phone No : 9538339936
Customer's Reference :
Project/Work Site : Imp of Roads & Drains

SI No.	Materials	Test to be Carried Out	Due on	Quantity	Rate (in Rs.)	Amount (in Rs.)	De-Code
1	AGGREGATE COARSE	CA Sieve Analysis	19-Aug-2014	2 Nos	300.00	600.00	1720
		CA Flakiness & Elongation Index	19-Aug-2014	2 Nos	300.00	600.00	1720
2	AGGREGATE FINE	CA Impact Value	19-Aug-2014	2 Nos	400.00	800.00	1720
		FA Sieve Analysis	19-Aug-2014	1 Nos	300.00	300.00	1721
		FA Partical Finer Than 75microns	19-Aug-2014	1 Nos	300.00	300.00	1721
		FA Fineness Modulus	19-Aug-2014	1 Nos	200.00	200.00	1721
3	CEMENT	C Physical Properties	19-Aug-2014	1 Nos	1,500.00	1,500.00	1722
4	CONCRETE BLOCKS (SOILD/HOLLOW)	CB Comressive Strength	19-Aug-2014	3 Nos	250.00	750.00	1723
						5,050.00	
					12	606.00	
					3	18.00	
				Total	13 Nos	₹ 5,674.00	
(Receipt No. :) Advance						₹ 5,674.00	
(Due Date:) Balance							

Signature of the Receiver's

Name & Signature
of the Client / Agent

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